Significant water savings

Central-like control, without requiring a desktop PC, or web-enabled

More brains. Less water.

John Deere Golf Irrigation Aurora™ Control Series

JOHN DEERE

Reduces water usage up to 25%. And that's not even counting the sweat it saves.

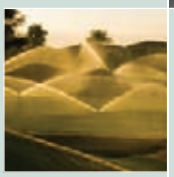
Which would you rather have?

A: An irrigation system that takes a long time to adjust to changed conditions, and isn't as precise as it could be in its application rates.

B: A system which automatically senses and instantly adjusts for even the slightest on-the-ground changes, plus allows to-the-second application rates?

And what if we told you option B was easy to install and use, could be upgraded in less than five minutes — and didn't necessarily require the most costly component of most systems, the "central" computer?

This isn't just a theoretical question. Option B is no pipe dream: It's the John Deere Aurora™ Control System. Smarter, simpler, and exceptionally reliable, it's the answer for all your irrigation needs.



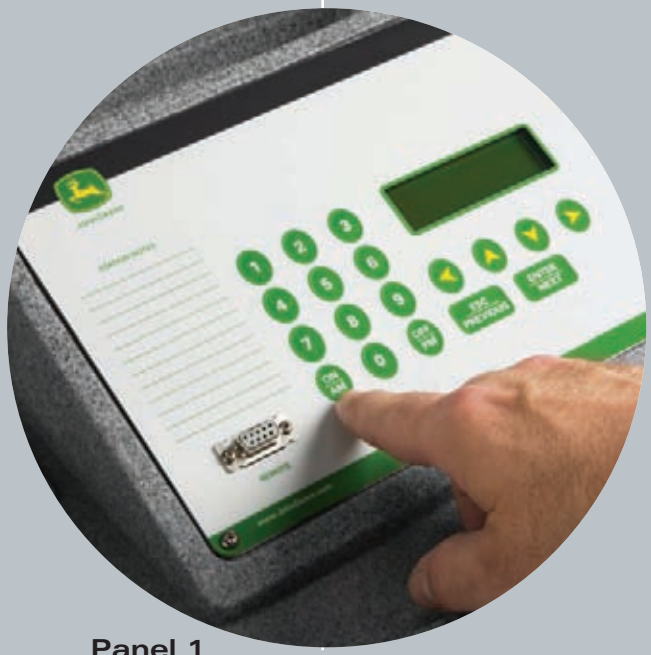
Extraordinary water savings

	Conventional	Aurora
180° rotation time (per head)	1:30 minutes	1:30 minutes
Flow (per head)	25 GPM	25 GPM
Controller setting	2:00 minutes	1:30 minutes
Water used per head	50 gallons	37.5 gallons
Water used multiplied by 800 heads	40,000 gallons	30,000 gallons
Aurora savings per application		10,000 gallons

The secret to Aurora's water conservation: To-the-second programming. In the example below, a conventional to-the-minute system must run for two minutes to ensure head rotates 180°, where the Aurora system can run exactly the time needed, 1:30—saving a full 30 seconds of water per head per application. If the system in the above example runs 200 times in a year, it adds up to *2 million* gallons saved.

This team performs with magnificent economy. Even without a star center.

Hole 5



Panel 1

The days of requiring a central computer to call all the shots for your course are over. All field controllers of the Aurora system are capable of not only managing their own rotors and valves on the same communications network, but also every other controller's rotors and valves. That's important so we'll say it again: Every field controller in the Aurora network can act as an overall controller.

Of course, if you want to add a central computer for your office, it's easy to do: you can link one in by cellular, hardwire, Internet, VHF, DSS, or UHF communication. Besides offering a simple-to-operate interface, and on-screen landscape and irrigation plans, this commanding central option also enables flow control.

With the addition of an interface unit, the Aurora system can rely on what's called peer-to-peer networking, where every station on the network has equal access to information. It's the same organization scheme that governs the Internet.

Hole 9

Hole 12

The ultimate in flow control: Aurora Professional Central Software. Windows®-based software adds desktop efficiency and the ability to monitor flow in real time for automatic adjustment of the irrigation schedule. And an enviro-database determines the most efficient irrigation schedule by monitoring its effect on the landscape.

Flexible programming means you won't waste a drop. Field controllers can be custom programmed, without a central, to run any station, in any order, with multiple start times, in cycle and soak modes and water budgeting from 0 all the way to 999%.

It's a win/win:

Give each hole individual climate control. Spend less time cooped up in the office.

Imagine having sensors embedded at each hole actually measuring and sending real-time updates for the controller to act on. Or being able to make adjustments to your irrigation settings from any web-enabled platform (from a PC back in the office, to your home PC, to a Windows Mobile® SmartPhone or PDA)? Or perhaps just being able to use a maintenance radio to change settings, without having to invest in costly upgrades to your controllers? The Aurora system can do all this, and more.

ET Sensor

Environmental sensors such as subsurface moisture, oxygen, methane and temperature levels, flow, rainfall, wind speed and ET, etc. connected to any single or array of field controllers can be embedded right in the ground of a rough or green, to instantly provide updates to the controller network. So instead of relying on a weather station located back at the office, each hole's Field Controller can receive the ultimate local weather report and act on it immediately, plus share this data directly with other controllers nearby.

YOU ARE NOW FREE TO LEAVE THE BUILDING.

Smartphone/PDA

With eAurora mobile management software, you can have access to your irrigation system anywhere in the world with an Internet connection. If you had wanted an office job, you'd have an office job.

Maintenance radio

Being able to access controllers with a maintenance radio is nothing new. But what is new is being able to add this capability to your system without requiring a central. Like other systems, Aurora can be accessed by landline or cell phone as well.

Upgrades in minutes, retrofits with existing irrigation systems, connects to decoders *and* conventional wiring...

Talk about hitting the ground running.

With Aurora, a hybrid control system, upgrading is simply a matter of uploading. Every Field Controller can be migrated to a newer operating system just by plugging in a laptop. And that's just the beginning of how Aurora makes things simpler. Aurora controllers work with all existing competitive 24-volt output systems. And the same controller can run both conventional stations and decoders. So no system is more flexible from grow-in to beyond.

Aurora Field Controllers are compatible with decoders, an internationally accepted alternative to conventional stations, which reduce the amount of wire required by 80%.

The Aurora system installs just like a conventional alternative, and because each satellite can act as a controller, it can speed grow-in times by taking charge of completed areas of the course.

Our finest engineering goes into our service.

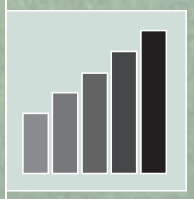
Aurora has multiple high-tech safeguards to ensure continuous operation, and rapid repair in case of a breakdown. It relies on platform-based, modular design electronics, has self-diagnostics and plug-and-play components for easy repair, and is CSA® compliant*. But that's not all: We also count on a proven, ultra-reliable system which has been functioning continuously since before the turn of the century, the John Deere servicing dealer.

"Having spent 22 years in course construction and maintenance, I have been a part of many new irrigation systems. And now as a co-owner and superintendent, I had a lot at stake to install a quality product. The support I've received from my John Deere distributor and the company itself in bringing my Aurora system online has more than lived up to my expectations. I feel better about my decision every day!"

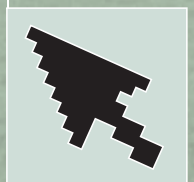
John Roth, Owner and Golf Course Superintendent • Paradise Valley Country Club • Casper, Wyoming

June 2007, Wilmington Country Club, Delaware: A direct lightning strike causes $15,000 in landscape damage, completely exploding a mature oak tree only 60 feet from an Aurora controller. The damage to the controller: only minor component replacements, and absolutely *no* burn out of neighboring controllers. Superintendent Dan Pierson, CGCS, explains, "I've experienced similar powerful strikes like this with other systems and they've knocked out 3 or 4 controllers all at once. But Aurora's lightning suppression system and wireless operation worked as promised. I'm very, very pleased we made the change."

No wonder every Aurora Field Controller comes standard with 24-volt and 110-volt lightning protection.



Aurora eliminates interference from analog noise by employing a digital communication protocol which transmits packetized encrypted data.



Formerly the Internet, now your safety Net: If your course has wireless cell phone coverage, our service technicians can remote directly into your system, and evaluate it right down to the solenoid. And there's no central computer required.**

*CSA standards are cross-recognized by Underwriter's Laboratories.
**with eAurora wireless modem.

Compare field controller configurations.

Standard Features	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Aurora Interface Unit (AIU) Features			
Features fully functional without need for central computer	•	•	•
Robust 2-way communication to all field controllers via "Remote Link"	•	•	•
Programming & emulation of all field controllers	•	•	•
Programming with keypad and display	•	•	•
Menu-driven programming	•	•	•
Large display with text messages	•	•	•
Multiple languages	•	•	•
Upgradeable—forward and backward	•	•	•
Direct sensor connections	•	•	•
Pump start outputs	•	•	•
Field Controller/Satellite Features			
Fully operational without need for central computer	•	•	•
Controller-to-controller communication (peer-to-peer)	•		
Field programming with keypad and display	•	•	No keypad[2]
Menu-driven programming	•	•	No keypad[2]
Large display with text messages	•	•	No keypad[2]
Multiple languages	•	•	No keypad[2]

Standard Features Continued	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Upgradeable—forward and backward	•	•	•
Smart-switches	•	•	No keypad[2]
Controller-specific smart-switch	•	•	No keypad[2]
Plastic pedestal (black, gray, tan, or green)	•	•	•
Station count	8-96	8-96	8-96
Decoder stations per controller	250[3]	250[3]	250[3]
Wall mount	•	•	•
Wall mount station count (8-station large terminal)	8-24	8-24	8-24
Wall mount station count (16-station small terminal)	16-48	16-48	16-48
Direct sensor connections	•	•	•
Remote sensor control	•		
Multi-level access with passwords	•	•	No keypad[2]
Communication Features			
Fully operational without need for central computer	•	•	•
Hardwire communication standard	•	•	
Radio communication standard			•[4]
Hardwire communication compatible	•	•	•
Radio communication compatible	•[4]	•[4]	•[4]
Hybrid communication compatible (radio and hardwire)	•[4]	•[4]	•[4]

Programming Features	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Standard Programming Features			
Number of controllers in network	990	990	990
Independent programs per controller	128	32[1]	32[1]
Events per program	48	48	48
Starts per program	8	8	8
Run time duration per event	5 sec-24 hours	5 sec-24 hours	5 sec-24 hours
Run time in hours, minutes, seconds	•	•	•
Operate external devices (lights, fountains, pumps, etc.)	•	•	•
Alarm log entries	90	90	90

Programming Features Continued	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Event log entries	125	125	125
Sensor log entries	90	7	7
Keypad	Yes	Yes	No
Number of pump/master valve starts – normally closed	2	1	1
Number of pump/master valve starts – normally open	2	N/A	N/A
Cycle Start Types			
Standard start times	•	•	•
Stop times	•	•	•
Link start times	•	•	•
Water days	•	•	•

Standard Features Continued	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Satellite options			
Accepts 8-station valve modules	•	•	•
Accepts 16-station (large terminal) valve modules	•	•	•
Accepts 16-station (small terminal) valve modules	•	•	•
Accepts decoder modules	•	•	•
Hybrid satellites (valve modules and decoder modules)	•	•	•
Works with hydraulic systems	•	•	•
Security			
User-defined passwords	•	•	•
Unique multi-level passwords	•	•	•
Keypad password	•	•	No keypad[2]
Programming password	•	•	No keypad[2]
Set-up password	•	•	No keypad[2]
Advanced password	•	•	No keypad[2]
Environmental Sensors			
Direct sensors (2 per satellite)	•	•	•
Remote sensors (4 per satellite)	•		
Shares sensor data from interface unit	•	•	•
Shares sensor data from any satellite to any satellite	•		
ET gauge compatible	•	•	•

Standard Features Continued	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Rain bucket compatible	•	•	•
Rain switch compatible	•	•	•
Flow meter compatible	•	•	•
Stop sensor compatible	•	•	•
Start sensor compatible	•	•	•
Handheld Maintenance Radio			
Works with handheld maintenance radio (any satellite) (VHF)	•	•	•
Remote Communication – Phone/Cell Phone			
Landline phone modem support in interface unit	•	•	•
Landline phone modem support in field controller/ satellites	•		
Cellular phone modem (SMS) support in interface unit	•	•	•
Cellular phone modem (SMS) support in field controller/ satellites	•		
Remote Communication – Web			
Web-based central control compatible (eAurora™)	•	•	•
eAurora™ support in interface unit	•	•	•
eAurora™ support in field controller/satellites	•		

Programming Features Continued	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Intervals	•	•	•
Program-specific water budget	•	•	•
Controller-specific water budget	•	•	•
Sequential or parallel start event operation	•	•	•
Automatic ET control	•	•	•
Flow monitoring	•	•	•
Real-time flow monitoring	•	•	•
Automatic flow builder table	•	•	•
Flow alarms	•	•	•
Flow-directed operations	•	•	•

Programming Features Continued	Aurora (AUR)	Aurora LT (ALT)	Aurora RT (AUT)
Status and Logs			
Program summary screen	•	•	No keypad[2]
Alarm log	•	•	No keypad[2]
AC current monitoring	•	•	•
Solenoid monitoring and alarm	•	•	•
Short circuit monitoring and alarm	•	•	•
Sensor logs	•	•	•
Status log	•	•	•

[1] Version 5.50 and higher.
[2] No Keypad on Field Satellites; Remote operations accomplished from Aurora Interface Unit (AIU).
[3] Refer to current limit guidelines for decoder installation/operation.
[4] 900 MHz Digital Spread Spectrum, license-free.

Specifications.

Features: Aurora (AUR) Specifications

The field controller shall have John Deere Golf Irrigation "Peer-to-Peer" network communication technology and shall be capable or responding to instructions sent from other remotely located AUR field controllers on the same communications network, without the need for central software.

The field controller shall communicate solicited or unsolicited data back to the central system, other satellites, or to any other approved John Deere Golf Irrigation remote devices.

The field controller shall be capable of reading 2-remote pulse-sensors for purposes of data acquisition and shall transmit unsolicited messages to any field controller, in network mode or central control mode, which requires the measured data for program adjustments, reporting, or alarm paging. This operation shall be independent of any central computer connected to the field controller system.

The field satellite shall be able to, with user intervention, transmit new program/s and/or program changes to all other controllers requiring the program data.

The field controllers shall be capable of multi-station operation as programmed at the central computer, Aurora Interface Unit, remote handheld device, remote laptop computer, or via the front keypad.

The field controller unit shall be supplied with Hardwire configuration as standard and be capable of operating as a "stand alone" field controller and able to perform any manual and automatic functions via the keypad.

The field controller shall have 128 irrigation programs, and shall allow for individual output station control which can have different start times, watering days, day cycles and station timing. All programming shall not be limited to 7- or 14-day operation, but shall permit for 365-day calendar programming. Each program shall have a capability operating 8 start times per day.

The control panel shall have a large 80 character alphanumeric, back-lit liquid crystal display (LCD) to show operation information and diagnostic data.

The field controller's control panel shall have 16 large, raised buttons with clear, descriptive icons and English labeling.

The control panel shall be capable of being removed whilst the field controller still operates as programmed and accepts instructions from remote devices.

The field controller shall be programmable in English with an optional second language installed.

The field controller shall have 4 user-definable master valve pump-start circuit for use with a separate master valve to pressurize the system when the irrigation cycle starts, or to activate a remote pump-start relay to run the pump during the irrigation cycle.

Features: Aurora Lite (ALT) Specifications

The field controllers shall be capable of multi-station operation as programmed at the central computer or Aurora interface unit.

The field controllers shall be capable of operation as programmed from a remote handheld device, or remote laptop computer that connects via the AIU.

The field controller unit shall be supplied with Hardwire configuration as standard and be capable of operating as a "stand alone" field controller and able to perform any manual and automatic functions via the keypad.

The field controller shall have 32 irrigation programs, and shall allow for individual output station control which can have different start times, watering days, day cycles and station timing. All programming shall not be limited to 7- or 14-day operation, but shall permit for 365-day calendar programming. Each program shall have a capability operating 8 start times per day.

The control panel shall have a large 80 character alphanumeric, back-lit liquid crystal display (LCD) to show operation information and diagnostic data.

The field controller's control panel shall have 16 large, raised buttons with clear, descriptive icons and English labeling.

The control panel shall be capable of being removed whilst the field controller still operates as programmed and accepts instructions from remote devices.

The field controller shall be programmable in English with an optional second language installed.

Features: Aurora Real Time (AUT) Specifications

The field controllers shall be capable of multi-station operation as programmed at the central computer or Aurora interface unit.

The field controllers shall be capable of operation as programmed from a remote handheld device, or remote laptop computer that connects via the AIU.

The field controller shall communicate solicited or unsolicited data back to the central system, other satellites, or to any other approved John Deere Golf Irrigation remote devices.

The field controller unit shall be supplied with radio configuration as standard and be capable of operating as a "stand alone" field controller and able to perform any manual and automatic functions via the keypad.

The field controller shall have 32 irrigation programs, and shall allow for individual output station control which can have different start times, watering days, day cycles and station timing. All programming shall not be limited to 7- or 14-day operation, but shall permit for 365-day calendar programming. Each program shall have a capability operating 8 start times per day.

Features: All Models

The field controller shall be the John Deere Aurora® Series: Aurora (AUR), Aurora Lite (ALT), or Aurora Real Time (AUT) as specified on the drawings.

The field controller shall have an internal non-volatile memory, which will retain the irrigation program and the programmed date and time for a minimum of 10 years without any power.

The field controller shall be microprocessor based, solid state and field upgradeable.

The field controller shall be of a modular-based design. It shall provide for digital communications technology capable of fully automatic and manual programming and in-field operation.

The field controller shall be configured to operate as required within the John Deere Golf Irrigation enclosure format as specified on the drawings. The enclosure configurations shall be available in Black, Gray, Green or Tan.

All communication modules, interfaces, radios, phone modems, etc, shall be easily installed in the field and removable from the front of the cabinet.

The field controller shall be an 8-station to 96-station model, configurable and expandable in 8-station or 16-station modules as specified on the drawings.

The field controller shall be supplied in an 8-station or 16-station configuration or in the station output configuration as defined on the drawings.

The field controller shall be capable of being upgraded in the field to control a maximum of 96 field outputs by inserting optional 8-station or 16-station valve module boards (John Deere Golf Irrigation part numbers ACVLV0, ACVLV1, AC016UGD, AC116UGD, AC016EXP or AC116EXP, as appropriate).

The field controller shall not be limited to operating conventional irrigation solenoid valves, but also capable of operating John Deere Golf Irrigation-style decoders.

In configurations where the drawings require a decoder and solenoid output configuration, the field controller shall be capable of operating a maximum of 80-solenoid valves and with the insertion of a single decoder modulator board (John Deere Golf Irrigation part number ACDEC1), the field controller shall be capable of operating a

maximum of 125-John Deere Golf Irrigation style decoders (John Deere Golf Irrigation part number AD111, A121, AD122, AD132 or AD142).

The external station and decoder wiring configuration and the required decoder operating voltage shall provide the limitation to the number of simultaneous stations and decoders operating.

The field controller shall be capable of being upgraded in the field to control decoders, valves, or pumps via inserting valve modules (John Deere Golf Irrigation part numbers ACVLV0, ACVLV1, AC016UGD, AC116UGD, AC016EXP or AC116EXP, as appropriate).

The transformer shall be rated at 3.2-amp output capacity for operating a maximum of 27 standard 2-watt solenoids plus a master valve at once. For controller requiring more than 48 stations, a separate power supply shall be integrated into the controller.

The field controller shall be connected directly to a flow sensor (John Deere Golf Irrigation part number AC220SS), without the need for any interface or transducer.

The field controller shall be capable of automatic adjustment of all ET-based schedules with reference to a locally mounted John Deere Golf Irrigation approved ET device (John Deere Golf Irrigation part number ACETGS).

The field controller shall be capable of connection to sensor board (John Deere Golf Irrigation part number ACANSC) to read John Deere Golf Irrigation approved industrial linear sensors capable of transmitting 0/4-20mA signals.

Setup of the sensors shall be done directly via the field controller's front panel and not dependent on an external device.

The field controller shall be capable of being fitted with an optional remote VHF-radio-receiver (John Deere Golf Irrigation part number ACVRHCI) to receive operation instructions transmitted by a VHF hand-held radio (John Deere Golf Irrigation part number AC13VHK). Each field controller shall be capable of receiving and responding to such commands without the intervention or requirement for a central computer.

The field controllers shall require 117 VAC (100 VAC minimum to 129 VAC maximum) at 60Hz input power or 220/240 VAC (200 VAC minimum to 260 VAC maximum) at 50Hz input power. Each unit shall have a step down transformer for 117 VAC input power to approximately 33.5 VAC output power or 220/240 VAC input power to 33.5 VAC output power for the operation of solenoid remote control valves and/or valve-in-head sprinklers.

The PDPE-style field controller shall have a durable, heavy-duty plastic pedestal cabinet with front and rear splash-proof sealed doors, lid with key-operated lock and shall be suitable for concrete pad mounting (concrete pad provided by others) or John Deere Golf Irrigation Quick-Pad mounting (John Deere Golf Irrigation part number ACPDPEQP).

The field controller shall be capable of being operated in standalone mode, or central satellite mode with the addition of the Aurora Central Software desktop package (John Deere Golf Irrigation part numbers, ASW/PROF) or network mode with the addition of the Aurora Network Center (John Deere Golf Irrigation part number, AIU).

The field controller shall be programmable in the field to insert all manufacturers' updates without the need to remove any integrated modules.

The field controller shall be operated in local standalone mode, network or central control mode and will be able to perform any satellite-specific manual and/or automatic functions in all modes. These modes shall be automatic to the operator and shall not rely on operator intervention.

The field controller shall be reasonably protected against electrical surge at all incoming and outgoing wiring connections.

The field controller shall be capable of being fitted with increased incoming mains surge suppressor modules on the incoming mains supply wires (John Deere Golf Irrigation part number SPNTI) and increased surge suppressor modules on the control wires (John Deere Golf Irrigation part number TWSPK).

The field controller shall have 8, 16, 24, 32, 40, and 48 through 96 stations, in 8-station increments, with each station capable of an operating time of 00:00:05 to 23:59:59, in 1-second increments. Controller station operation shall be of automatic sequential stacking to avoid overlapping operation, unless programmed to overlap.

The field controller shall be protected against severe electrical surge at all incoming and outgoing wiring connections.

Programs will run on an ODD/EVEN day cycle, day of the week/month ON/OFF cycle, or in cycles from 1-365 days. In addition, the controller shall have a programmable rain shutdown from 1-99 days.

The field controller shall be capable of being operated fully, manually or semi-automatically at any time via an interface unit, remote field controller/satellite or remote devices such as VHF-style handheld radios, mobile phones, laptop computer or Tablet PCs.

The field controller shall have John Deere Golf Irrigation "Two-Way" communication technology and shall be capable or responding to instructions sent from a remotely located John Deere Golf Irrigation Interface Unit (John Deere Golf Irrigation Part number AIU) in Network mode on the same communications network, without the need for a central computer and John Deere Golf Irrigation central software.

The field controller shall be equipped to support an optional 2-watt digital network radio and modem directly, without the need for any communication module.

Each field controller shall be capable of utilizing standard telephone, point-to-point radio (450 470 MHz [UHF]; 150-170 MHz [VHF]), spread-spectrum radio (902-960 MHz [USA]; 2.4000-2.4835 GHz [INT]), or a directly connected serial cable as a communication link to the central computer or remote handheld device.

If fitted with radio, the field controllers shall also have a domed hood antenna mounted on the enclosure or integrated into the pedestal cabinet and the antenna coaxial cable connected directly to the radio unit.

The field controller shall operate on a multiple communication platform. Each field controller shall be factory-set to accept hybrid communication configurations.

The central software shall download new or updated control data to all field controllers for operation as programmed from the central, and the field controller shall operate as programmed.

The field controllers shall operate as programmed for the calendar period defined, without any intervention from the central system.

The field controller shall be equipped with John Deere Golf Irrigation Smart-Switch™ technology to facilitate control of manual operation of station outputs without the need to adjust programs or the usage of mechanical switches.

The field controller can be operated in any mode, including random operation of any individual stations, and shall not be required to operate in numerical sequence.

All communication cable supplied and installed shall be in accordance with JOHN DEERE GOLF IRRIGATION CABLING/WIRING SPECIFICATION.

All splices in the station output wiring and all underground connections shall be made using approved direct burial splice kits and shall be in accordance with JOHN DEERE GOLF IRRIGATION CABLING/WIRING SPECIFICATION.

All underground wire joints and connections shall be in the standard size valve boxes, except at valve-in-head-sprinklers.

Line conditioners shall be installed at the field controller power source and shall be the filtered output type. Line conditioners shall be for 120 Volt, single-phase power rated for 100 Amps or 240 Volt, single-phase power rated for 100 Amps. It shall have a discharge capacity of 10,000 Amps at an 8 x 20 second pulse. The 120-Volt devices shall have a clamping voltage of 130 Volts and a response time of 1.5 N/sec and the 240-Volt devices, shall have a clamping voltage of 250 Volts and a response time of 1.5 N/sec. Surge arrestor shall be CSA and UL approved.

At the time of installation, each field controller shall be fitted with a mains surge suppressor (John Deere Golf Irrigation part number SPNTI) on the incoming mains supply line.

The field controller shall be properly grounded and in accordance with John Deere Golf Irrigation Control Systems; JOHN DEERE GOLF IRRIGATION EARTH GROUNDING SPECIFICATION and ASIC Guideline 100-2002.

The controller shall be CUL, and/or CSA, listed for North America, and CE listed for Europe.

Visit www.JohnDeere.com/golfirrigation
for additional product specifications,
downloadable PDFs and more.

PGA TOUR EXCLUSIVE GOLF IRRIGATION SUPPLIER

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